

Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. - 3. Canceled

4. (new)

A method for polluted water treatment comprising electrocoagulation of polluted water carried out in reiterated cycles, each of which comprises the following steps:

- feeding to the electrocoagulator a dose of said polluted water having a surface;
- establishing an initial pressure over said surface of said dose of said polluted water, said pressure ranging between 0.01 and 0.1 mPa;
- carrying out said electrocoagulation during which the pressure effective over said surface of said dose of said polluted water is raised to as high as 0.1 to 2.5 mPa;
- withdrawing the dose of treated water;
- reducing the pressure to said initial level;
- repeating said cycles at a frequency lying within 0.01 and 0.0001 Hz.

5. (new)

A method of claim 4, wherein said electrocoagulation is followed by gravitational separation of said dose of said treated water at a pressure of 0.1-2.5 mPa.

6. (new)

A method of claim 4, wherein said electrocoagulation is

followed by separation of said dose of said treated water in an IR-spectrum electromagnetic radiation having a specific heating power of from 0.1 to 10 kW/cu.m.